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MC200203588: MUHAMMAD SOHAIL

MTH601:Quiz

Time Left 89 sec(s)

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 8 of 10 (Start time: 08:51:21 AM, 06 June 2021)

Total Marks:

Which of the following correspond to the practical limitations of available resources while modeling a real life situation into a linear program?

Select the correct option

- Constraints
- Linear function
- Objective function
- Decision variables

Click to Save Answer & Move to Next Question

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quiz.vu.edu.pk/QuizQuest 2

MC200203588: MUHAMMAD SOHAIL

Time Left 89 sec(s)

MTH601:Quiz

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 10 of 10 (Start time: 08:53:39 AM, 06 June 2021)

Total Marks: 1

Which of the following correspond to the economic or physical quantities which are under the control of operations researcher while modeling a real life situation into a linear program?

Select the correct option

- O Objective function
- O Constraints
- O Decision variables
- O Linear function

Click to Save Answer & Move to Next Question

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Question # 1 of 10 (Start time: 04:33:48 PM, 06 June 2021) **Total Marks: 1**

Which of the fiollowing is an intermediate step to model a linear programming problem?

Select the correct option

- Identify the non-negative restrictions and constraints
- None of these
- Identify the objective function
- Identify the unknown decision variables

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4

MC200203833: FAIZAN HASSAN

Time Left 89 sec(s)

MTH601 Quiz

Quiz Start Time: 04:19 PM, 06 June 2021

Question # 10 of 10 | Start time: 04:25:30 PM, 06 June 2021)

Total Marks:

Under which of the following condition the economic order quantity in case of Purchasing Model with Shortage can be transformed into Purchasing Model with no Shortage?

Select the correct option

- When Carrying Cost tends to zero
- When Shortag Cost tends to infinity
- When shortage Cost tends to zero ✓
- When Carrying Cost tends to infinity

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MC200203833- FAIZAN HASSAN

Time Left 88 sec(s)

MTH601 Quiz

Quiz Start Time: 04:19 PM, 06 June 2021

Question # 9 of 10 (Start time: 04:24:40 PM, 06 June 2021)

Total Marks: 1

The objective function and ——— together form a Linear Programming problem.

Select the correct option

- unrestricted variables
- a set of constraints ✓
- optimal solution
- feasible region

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MC200203833- FAIZAN HASSAN

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MTH601 Quiz

Quiz Start Time: 04:19 PM, 06 June 2021

Question # 7 of 10 (Start time: 04:23:16 PM, 06 June 2021)

Total Marks: 1

In the Dynamic Order Quantity problem, the Demands of all succeeding months can be included in the demand of preceding one provided that ----------.

Select the correct option

- Item and Holding Costs are balanced
- Setup and Holding Costs are balanced
- Shortage and Setup Costs are balanced
- Shortage and Item Costs are balanced

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MC200203833 FAIZAN HASSAN

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MTH601 Quiz

Quiz Start Time: 04:19 PM, 06 June 2021

Question # 6 of 10 (Start time: 04:22:29 PM, 06 June 2021)

Total Marks: 1

In the Purchasing Model with Shortages the Cost Function 'C(S,Q)' can also be expressed as function of ----------.

Select the correct option

- (S,D)
- (t,D)
- (S,t)
- (Q,D)

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MC200203833- FAIZAN HASSAN

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MTH601 Quiz

Quiz Start Time: 04:19 PM, 06 June 2021

Question # 6 of 10 (Start time: 04:21:48 PM, 06 June 2021)

Total Marks: 1

Which of the following would be the objective of the cost per unit of producing certain cameras?

Select the correct option

- Inflection
- Average
- Minimization
- Maximization

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4

MC200203833: FAIZAN HASSAN

Time Left 89 sec(s)

MTH601 Quiz

Quiz Start Time: 04:19 PM, 06 June 2021

Question # 2 of 10 (Start time: 04:19:57 PM, 06 June 2021)

Total Marks:

Which of the following would be the objective of the efficiency of a certain air conditioning system depending upon temperature 'x', pressure 'y', moisture 'w' and cross-sectional area of outlet 'u'?

Select the correct option

- Inflection
- Average
- Minimization
- Maximization

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Question # 9 of 10 (Start time: 12:48:46 PM, 06 June 2021) Total Marks: 1

If the cost function in terms of economic order quantity is C = Q^2-400Q, then the minimum cost of inventory per unit of time is --------- units.

Select the correct option

- O 800
- O 400
- O 200
- O 398

Click to Save Answer & Move to Next Question

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Question # 8 of 10 (Start time: 12:47:40 PM, 06 June 2021) Total Marks: 1

Modeling of a Linear Programming problem from a real life world is a/an ------ .

Select the correct option

- art
- science
- engineering
- technology

Click to Save Answer & Move to Next Question

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Question # 7 of 10 (Start time: 12:46:22 PM, 06 June 2021)

Total Marks: 1

Which of the following will be annual optimum cost of a product if the number of annual orders WITHOUT any shortage is 25 and the total cost of one cycle is 10,000?

Select the correct option

- Rs.9975
- Rs. 250000
- Rs. 10025
- Rs.400

Click to Save Answer & Move to Next Question

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Question # 6 of 10 (Start time: 12:45:20 PM, 06 June 2021) Total Marks: 1

If we increase the inventory, then the shortage cost will ----------.

Select the correct option

- remain constant
- uncertain
- decrease
- increase

Click to Save Answer & Move to Next Question

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Question # 5 of 10 (Start time: 12:43:34 PM, 06 June 2021)

Total Marks: 1

In which of the following model, the Carrying Cost per unit of time is reduced in the ratio
(1-D/R):1 ?

Select the correct option

- Manufacturing Model with allowed Shortage
- Purchasing Model without Shortage
- Manufacturing Model without Shortage
- Purchasing Model with allowed Shortage

Click to Save Answer & Move to Next Question

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Question # 4 of 10 (Start time: 12:41:57 PM, 06 June 2021) Total Marks: 1

In the ABC analysis, the items are classified into three categories with respect their----------.

Select the correct option

- cost value
- demand value
- turn over value
- mark up value

Click to Save Answer & Move to Next Question

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Question # 3 of 10 (Start time: 12:40:58 PM, 06 June 2021) Total Marks: 1

Under which of the following condition the economic order quantity in case of Purchasing Model with Shortage can be transformed into Purchasing Model with no Shortage?

Select the correct option

- When Shortag Cost tends to infinity
- When Carrying Cost tends to zero
- When shortage Cost tends to zero
- When Carrying Cost tends to infinity

Click to Save Answer & Move to Next Question

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Question # 1 of 10 (Start time: 12:38:33 PM, 06 June 2021) Total Marks: 1

Under which of the following condition, the Economic Order Quantity (EOQ) of Manufacturing Model with allowed Shortage can be transformed into the same Model without Shortage?

Select the correct option

- ○ When Setup Cost is zero
- ○ When Shortage Cost is zero
- ○ When Shortage Cost is infinity
- ○ When Setup Cost is infinity

Click to Save Answer & Move to Next Question

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https://quiz.vu.edu.pk

MC200204281: RAZWAN KHAN

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MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 2021

Question # 10 of 10 (Start time: 12:36:04 PM, 06 June 2021)

Total Marks:

If the economic order quantity and the annual demand of a product are 2500 and 5000 units respectively, then WITHOUT any shortage the number of orders are ---------.

Select the correct option

- 500
- 02 ✓
- 30
- 125

Click to Save Answer & Move to Next Question

$N = D/Q$

$= 5000/2500$

$= 2$

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https://quiz.vu.edu.pk

MC200204281: RAZWAN KHAN

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MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 202

Question # 9 of 10 (Start time: 12:35:16 PM, 06 June 2021)

Total Marks:

Which of the following is the meaning of 'Linear'?

Select the correct option

- Relationship between the variables is finite or infinite
- Relationship between the variables is a straight line ✓
- Relationship between the variables is discrete line
- Relationship between the variables is a curvilinear

Click to Save Answer & Move to Next Question

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MC200204281: RAZWAN KHAN

Time Left 89 sec(s)

MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 202

Question # 7 of 10 (Start time: 12:33:56 PM, 06 June 2021)

Total Marks:

Which of the following correspond to the economic or physical quantities which are under the control of operations researcher while modeling a real life situation into a linear program?

Select the correct option

- Constraints
- Decision variables
- Linear function
- Objective function

Click to Save Answer & Move to Next Question

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https://quiz.vu.edu.pk

MC200204281: RAZWAN KHAN

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MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 202

Question # 5 of 10 (Start time: 12:32:46 PM, 06 June 2021)

Total Marks:

If the ordered quantity of a commodity is 'q', then the ordering cost per unit is " C2/q " which is --------proportional to the quantity ordered.

Select the correct option

- directly
- inversely

Click to Save Answer & Move to Next Question

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MC200204281: RAZWAN KHAN

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MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 202

Question # 4 of 10 (Start time: 12:31:57 PM, 06 June 2021)

Total Marks:

Which of the following is the major objective of the ABC analysis of inventory?

Select the correct option

- O To classify the items in different categories
- O To fulfill the demand of items
- O To replace the required items in proper time
- O To control the inventories

Click to Save Answer & Move to Next Question

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MC200204281: RAZWAN KHAN

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MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 202

Question # 3 of 10 (Start time: 12:31:19 PM, 06 June 2021)

Total Marks:

While solving a problem by any of Linear Programming method, an objective function is to be ----------.

Select the correct option

- standardized
- maximized
- minimized
- optimized ✓

Click to Save Answer & Move to Next Question

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https://quiz.vu.edu.pk

MC200204281: RAZWAN KHAN

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MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 2021

Question # 2 of 10 (Start time: 12:30:29 PM, 06 June 2021)

Total Marks:

In the ABC analysis, the items are classified into three categories with respect their----------.

Select the correct option

- mark up value
- turn over value
- cost value
- demand value

Click to Save Answer & Move to Next Question

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https://quiz.vu.edu.pk

MC200204281: RAZWAN KHAN

Time Left 89 sec(s)

MTH601:Quiz

Quiz Start Time: 12:28 PM, 06 June 202

Question # 1 of 10 (Start time: 12:28:53 PM, 06 June 2021)

Total Marks:

Which of the following category of items in ABC analysis needs special attention by the management?

Select the correct option

- All categories need equal and fair attention
- C category
- A category ✓
- B category

Click to Save Answer & Move to Next Question

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If the economic order quantity and the annual demand of product are 2500 and 5000 units respectively, then WITHOUT any shortage the number of orders are ---------

lect the correct option

- 125
- 30
- 02 ✓
- 500

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66% 11:55 AM

n the Dynamic Order Quantity problem if the ratio of Setu
nd Carrying Costs is '500' and the Demands of 2nd and
3rd months are 50 and 120 respectively then which of the
ollowing is true about the 2nd month's requirment?

ect the correct option

- 2nd month demand will have to fulfill in 2nd month
- 2nd month demand can be included in any month of the year
- 2nd month demand can be included in 1st month
- 2nd month demand can be included in 3rd month

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If the total inventory in one cycle of 't' units of time is '(1/2)Qt', then which of the following is the average ineventory at any time?

Select the correct option

- 2Q
- Q/t
- Q/2
- (Q/2)t

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In the Dynamic Order Quantity problem if the ratio of Setup and Carrying Costs is '500' and the Demands of 2nd and 3rd months are 50 and 130 respectively then which of the following is true about the 2nd month's requirment?

Select the correct option

- 2nd month demand can be included in any month of the year
- 2nd month demand will have to fulfill in 2nd month
- 2nd month demand can be included in 3rd month
- 2nd month demand can be included in 1st month

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Solution of a Linear Programming problem is found by ------ methods.

Select the correct option

- Probabilistic
- Iterative
- Pure algebraic
- Analytical

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Which of the following is true about the Manufacturing model without Shortage?

Select the correct option

- Demand rate = Replacement rate
- Demand rate > Replacement rate
- Demand rate < Replacement rate ✓
- None of the above choices

P = 40

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Question # 2 of 10 (Start time: 11:50:29 AM, 06 June 2021)

In an optimization problem, we seek for maximizing or minimizing a specific quantity, called the ---------.

Select the correct option

- objective function
- constraints
- decision variables
- feasible solution

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MC200203588: MUHAMMAD SOHAIL

Time Left 88 sec(s)

MTH601:Quiz

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 9 of 10 (Start time: 08:52:24 AM, 06 June 2021)

Total Marks: 1

Which of the following is the major objective of the ABC analysis of inventory?

Select the correct option

- O To replace the required items in proper time
- O To fulfill the demand of items
- O To control the inventories
- O To classify the items in different categories

Click to Save Answer & Move to Next Question

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MC200203588: MUHAMMAD SOHAIL

MTH601:Quiz

Time Left 89 sec(s)

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 7 of 10 (Start time: 08:50:04 AM, 06 June 2021)

Total Marks: 1

Which of the following is the is major assumed difference between the models of Purchasing and Manufacting without shortage ?

Select the correct option

- Shortage
- Demand
- Replacement rate
- Item, Setup and Holding Costs

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Question # 6 of 10 (Start time: 08:48:12 AM, 06 June 2021)

Total Marks: 1

In the ABC analysis, the items are classified into three categories with respect their----------.

Select the correct option

- cost value
- mark up value
- turn over value
- demand value

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MC200203588: MUHAMMAD SOHAIL

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MTH601:Quiz

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 5 of 10 (Start time: 08:47:02 AM, 06 June 2021)

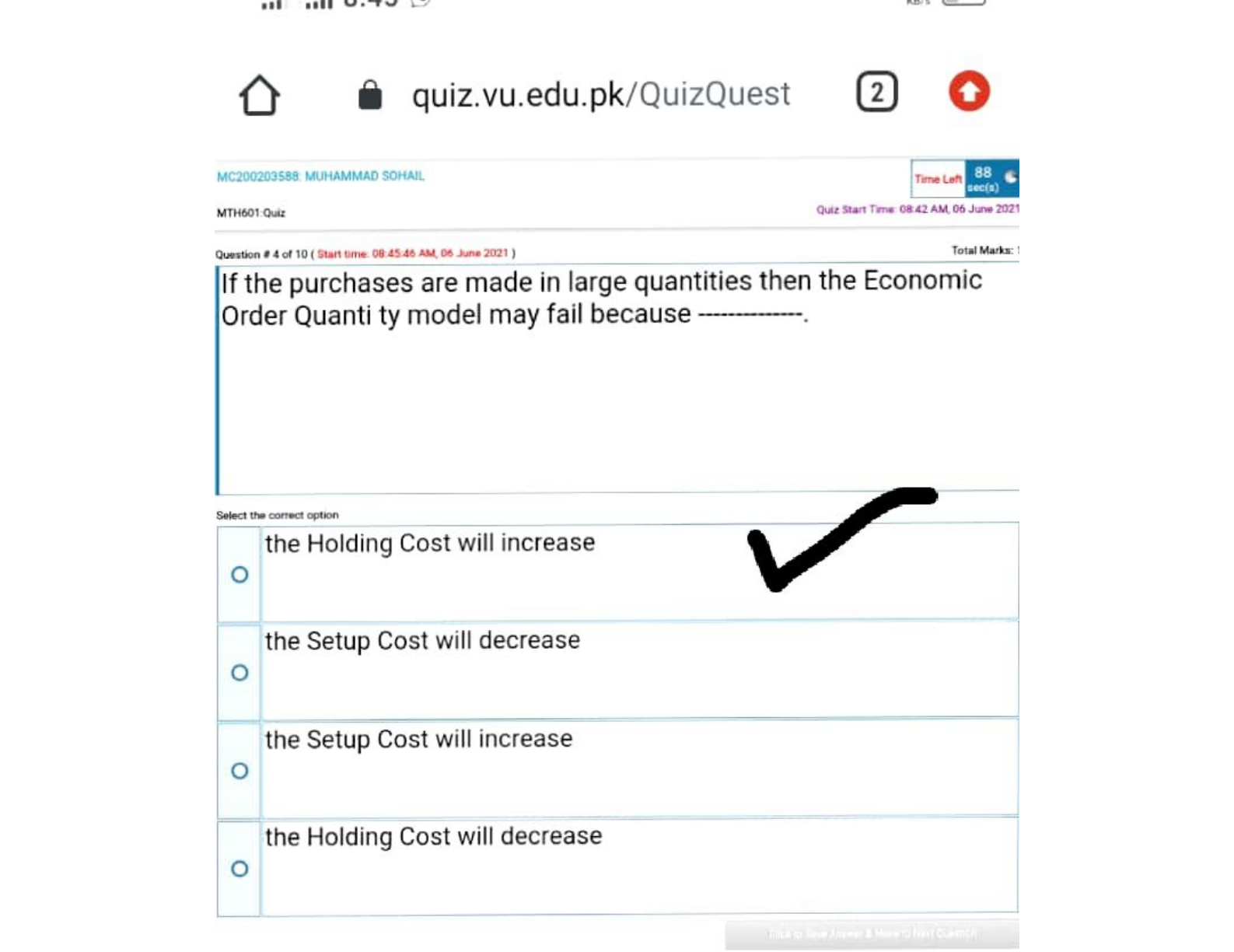
Total Marks: 1

For an industrialist, optimization means ----------.

Select the correct option

- change the business strategy and looking forward new customers
- both maximizing its profit and minimizing its cost
- minimizing its cost only
- maximizing its profit only

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MC200203588: MUHAMMAD SOHAIL

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MTH601:Quiz

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 3 of 10 (Start time: 08:44:15 AM, 06 June 2021)

Total Marks: 1

Which of the following would be the objective of the revenue in a production of cell phones?

Select the correct option

- Maximization
- Minimization
- Inflection
- Average

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MC200203588: MUHAMMAD SOHAIL

Time Left 89 sec(s)

MTH601:Quiz

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 2 of 10 (Start time: 08:43:07 AM, 06 June 2021)

Total Marks: 1

In the graph of Purchasing Model with shortages, the area above the horizontal axis represents ----------.

Select the correct option

- shortage cost of item
- carrying cost of item
- set up cost of item
- purchase cost of item

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MC200203588: MUHAMMAD SOHAIL

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MTH601:Quiz

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 1 of 10 (Start time: 08:42:16 AM, 06 June 2021)

Total Marks:

Solution of a Linear Programming problem is found by --------- methods.

Select the correct option

- Iterative
- Analytical
- Probabilistic
- Pure algebraic

Click to Save Answer & Move to Next Question

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Question # 10 of 10 (Start time: 07:20:05 PM, 06 June 2021) Total Marks: 1

A single cycle consists of two phases in case of "Manufacturing without Shortage ", then which of the following is the first phase?

Select the correct option

O	The inventory is assembled at constant rate per unit of time
O	Withdrawl of items from inventory at constant rate in per unit of time

Click to Save Answer & Move to Next Question

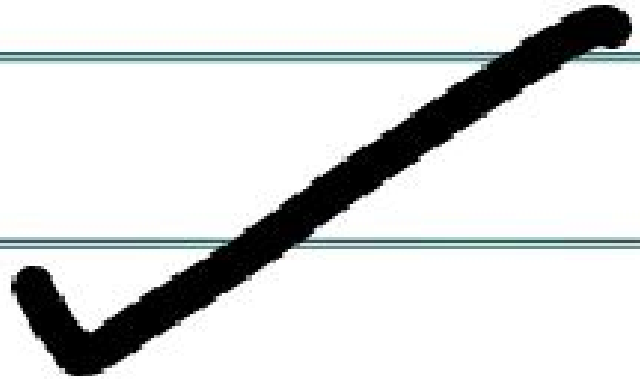
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Question # 6 of 10 (Start time: 07:16:42 PM, 06 June 2021) **Total Marks: 1**

Under which of the following condition, the Economic Order Quantity (EOQ) of Manufacturing Model with allowed Shortage can be transformed into the same Model without Shortage?

Select the correct option

O	When Setup Cost is zero
O	When Shortage Cost is infinity
O	When Setup Cost is infinity
O	When Shortage Cost is zero



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Question # 5 of 10 (Start time: 07:15:46 PM, 06 June 2021) Total Marks: 1

Which of the following quantity will vary in case of Dynamic Order Quantity Model?

Select the correct option

O	Setup Cost
O	Demand
O	Item Cost
O	Carrying Cost

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Quiz

MC200203622: ARIF MEHMOOD

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MTH601:Quiz

Quiz Start Time: 07:12 PM, 06 June 2021

Question # 4 of 10 (Start time: 07:15:12 PM, 06 June 2021)

Total Marks: 1

Which of the following would be the objective of the daily loss of heat in a heating system?

Select the correct option

O	Inflection
O	Average
O	Minimization
O	Maximization

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Question # 1 of 10 (Start time: 07:12:30 PM, 06 June 2021)

Total Marks: 1

If the total inventory in one cycle of 't' units of time is '(1/2)Qt', then which of the following is the average ineventory at any time?

Select the correct option

O	2Q
O	Q/t
O	Q/2
O	(Q/2)t

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Which of the fiollowing is an intermediate step to model a linear programming problem?

Select the correct option

O	Identify the non-negative restrictions and constraints
O	Identify the objective function ✓
O	Identify the unknown decision variables
O	None of these

Click to Save Answer & Move to Next Question

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Question # 9 of 10 (Start time: 07:01:42 PM, 06 June 2021) Total Marks: 1

In the Dynamic Order Quantity problem if the ratio of Setup and Carrying Costs is '500' and the Demands of 2nd and 3rd months are 50 and 130 respectively then which of the following is true about the 2nd month's requirment?

Select the correct option

O	2nd month demand can be included in 1st month
O	2nd month demand can be included in any month of the year
O	2nd month demand will have to fulfill in 2nd month
O	2nd month demand can be included in 3rd month

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Which of the following would be the objective of the efficiency of a certain air conditioning system depending upon temperature ‘x’, pressure ‘y’, moisture ‘w’ and cross-sectional area of outlet ‘u’?

Select the correct option

O	Minimization
O	Maximization
O	Average
O	Inflection

Click to Save Answer & Move to Next Question

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Question # 5 of 10 (Start time: 06:59:15 PM, 06 June 2021) Total Marks: 1

If we decrease the inventory then the shortage cost and the ----------per unit of time will increase.

Select the correct option

O	carrying cost
O	set up cost

Click to Save Answer & Move to Next Question

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Question # 4 of 10 (Start time: 06:58:37 PM, 06 June 2021) Total Marks: 1

Holding Cost is ---------- proportional to the quantity to be kept in stock and the time to which the inventory is maintained.

Select the correct option

- directly
- inversely

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Question # 3 of 10 (Start time: 06:57:11 PM, 06 June 2021) Total Marks: 1

If the economic order quantity and the annual demand of a product are 2500 and 5000 units respectively, then WITHOUT any shortage the time between the consecutive orders is -------- months.

$t = Q/D$

Select the correct option

O	1.50
O	02
O	2.50
O	0.50

$= \frac{2500}{5000}$

$= 0.5$

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Question # 1 of 10 (Start time: 06:55:47 PM, 06 June 2021) Total Marks: 1

Linear Programming is the backbone of Operations Research models due to--------.

Select the correct option

O	linearity of objective function and constraints
O	its fantastic computational efficiency
O	unrestricted signs of decision variables
O	non-negativity of decision variables

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MC200203588: MUHAMMAD SOHAIL

MTH601:Quiz

Time Left 89 sec(s)

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 8 of 10 (Start time: 08:51:21 AM, 06 June 2021)

Total Marks:

Which of the following correspond to the practical limitations of available resources while modeling a real life situation into a linear program?

Select the correct option

- Constraints
- Linear function
- Objective function
- Decision variables

Click to Save Answer & Move to Next Question

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MC200203588: MUHAMMAD SOHAIL

Time Left 89 sec(s)

MTH601:Quiz

Quiz Start Time: 08:42 AM, 06 June 2021

Question # 10 of 10 (Start time: 08:53:39 AM, 06 June 2021)

Total Marks: 1

Which of the following correspond to the economic or physical quantities which are under the control of operations researcher while modeling a real life situation into a linear program?

Select the correct option

- O Objective function
- O Constraints
- O Decision variables
- O Linear function

Click to Save Answer & Move to Next Question

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